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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,572	06/27/2003	Keith W. Reiss	5002	
7590 10/23/2006			EXAMINER	
James Remenick			TANINGCO, MARCUS H	
Powell Goldstein LLP 901 New York Avenue, NW			ART UNIT	PAPER NUMBER
Third Floor Washington, DC 20001-4413			2884	
			DATE MAILED: 10/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/607,572	REISS, KEITH W.				
Office Action Summary	Examiner	Art Unit				
	Marcus H. Taningco	2884				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with the c	orrespondence address				
 A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). 	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27	June 2003.					
<u>, —</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application	4) Claim(s) 1-6 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7)⊠ Claim(s) <u>5 and 6</u> is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10)⊠ The drawing(s) filed on <u>27 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a lis	st of the certified copies not receive	ed.				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)				
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	•				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

DETAILED ACTION

Information Disclosure Statement

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The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gibson et al. (US 5,548,217).

With regards to claim 1, Gibson et al. discloses a method of determining a concentration of a gas comprising the steps of: introducing a mixture of gases into a chamber; exposing the gas to microwave (submillimeter) radiation that sweeps a predetermined frequency band (Col. 7, 10-14); and generating a spectrum of the gas (Col. 1, 12-18). Gibson et al. fails to teach providing a standard spectrum, selecting a first peak of the standard spectrum, and determining whether the

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selected first peak is present in the generated spectrum. Ishihara et al. teaches a spectroscopic analysis method for gases comprising: providing a standard spectrum of the impurity (chemical species) alone (Col. 7, 14-20); selecting a first peak of the standard spectrum of the impurity (chemical species); and determining whether the selected first peak is present in the generated spectrum of the mixture of gases (Col. 11, 24-32). It would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Gibson et al. with the method suggested by Ishihara et al. in order to accurately identify a particular impurity or chemical species in a gas.

With regards to claim 2, Ishihara et al. teach selecting a plurality of peaks from the standard spectrum and determining whether said plurality of peaks are present in the generated spectrum (Col. 11, 24-32).

With regards to claim 3, Ishihara et al. teach selecting the strongest (largest) peak for comparison (Col. 3, 31-41).

With regards to claim 4, Ishihara et al. teach determining a quantity of the chemical species in the mixture of gasses when the first peak is present in the spectrum of the mixture of gasses (Col. 3, 1-7).

Allowable Subject Matter

Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

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With regards to claims 5 and 6, prior art teaches most aspects of the claimed invention, namely a method of identifying a component of a gas in a gas mixture using microwave spectroscopy but fails to suggest providing additional standard submillimeter spectra of other chemical species and determining the presence of the first peaks of the corresponding standard submillimeter spectra until at least one/all of the first peaks is determined to be present in the corresponding spectrum.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus H. Taningco whose telephone number is (571) 272-1848. The examiner can normally be reached on M - F 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

ALBERT J. GAGLIARDI PRIMARY EXAMINER Art Unit: 2884

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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